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Activity 3 - Queries and Reports Practice Questions

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The Cinema Chain

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Task Scenario

You have been asked to create a database for the East Berkshire Cinema Multiplex. Currently all records are stored on a spreadsheet.

The surgery would like to be able to store and report data on how the cinema is used. The cinema has two screens, one has 500 seats, the other has 400 seats

The cinema has several films showing and it records the different types of film.

Films belong to categories U, PG, 12, 15 and 18.

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Task Scenario

When people go to the cinema they can:

Pick the screen

Pick the date of the performance

Book tickets. The minimum number booked is 1 and the maximum booked is 5

Pick the seat type – standard seating is £10, Luxury seating is £15, Premium is £20

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The Data.

BookingID	ScreenID	FilmID	Booking Date	Film Title	Film rating	Screen Seats	Screen Name	Num Tickets	Seat ID	Seat Type	Seat Price
101	1	27	21/07/2020	Jaws	PG	500	A	4	1	Standard	£10

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Queries

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Query 1

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Create a query that shows an alphabetical list of all film titles sorted A – Z.

- This is a simple single table query
- Select everything from the film table
- Show both columns
- Add ‘ascending’ to the FilmTitle sort row

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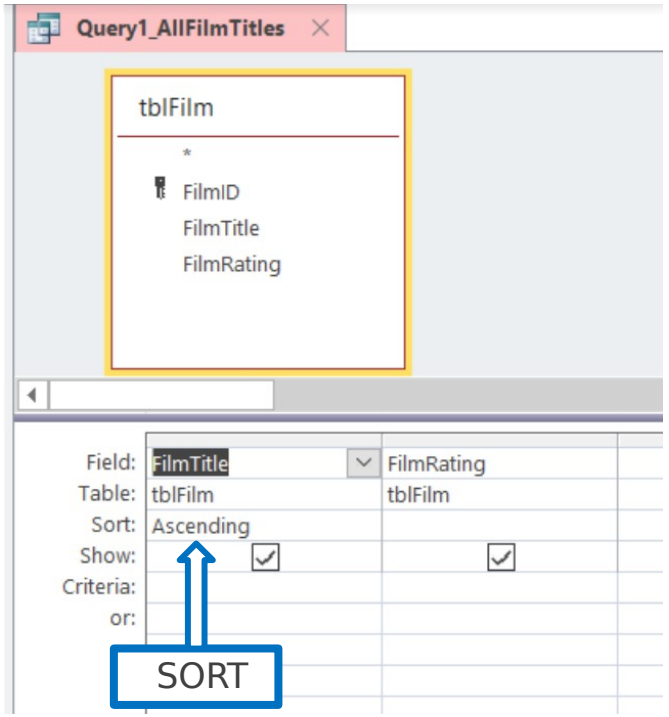
Create a query that shows an alphabetical list of all film titles sorted A – Z

QUERY RESULTS

Query1_AllFilmTitles

FilmTitle	FilmRating
Alien	18
Cars	U
Jaws	PG
Up	U

QUERY DESIGN



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Query 2

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Create a query that shows a list of Booking Dates sorted newest first.

This is a simple single table query

Select only the BookingDate, NumberOfTickets and BookingID fields

Add ‘descending’ to the BookingDate sort row

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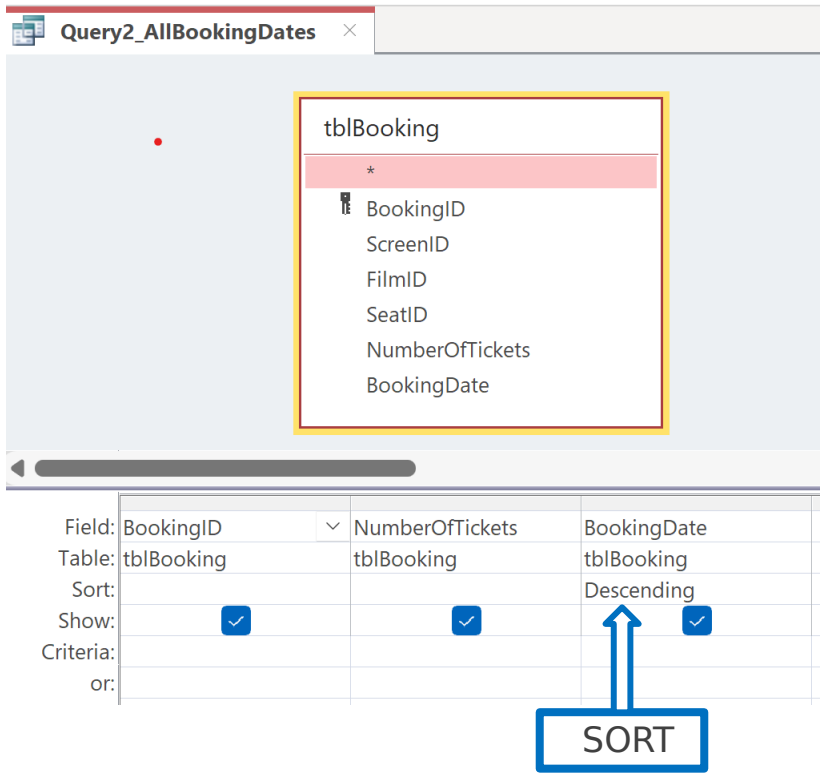
Create a query that shows a list of Booking Dates sorted newest first.

QUERY RESULTS

Query2_AllBookingDates

BookingID	NumberOfTickets	BookingDate
105	5	23/07/2020
106	5	23/07/2020
103	3	22/07/2020
104	2	22/07/2020
107	1	22/07/2020
101	4	21/07/2020
102	4	21/07/2020

QUERY DESIGN



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Reports

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Report 1

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Report 1 – Query Information

This report runs from a simple single table query

This needs to be created first

Use the report wizard to get this built quickly

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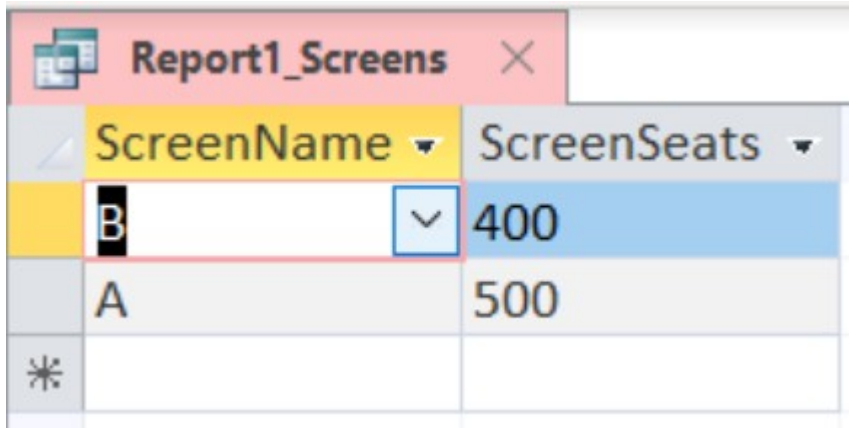
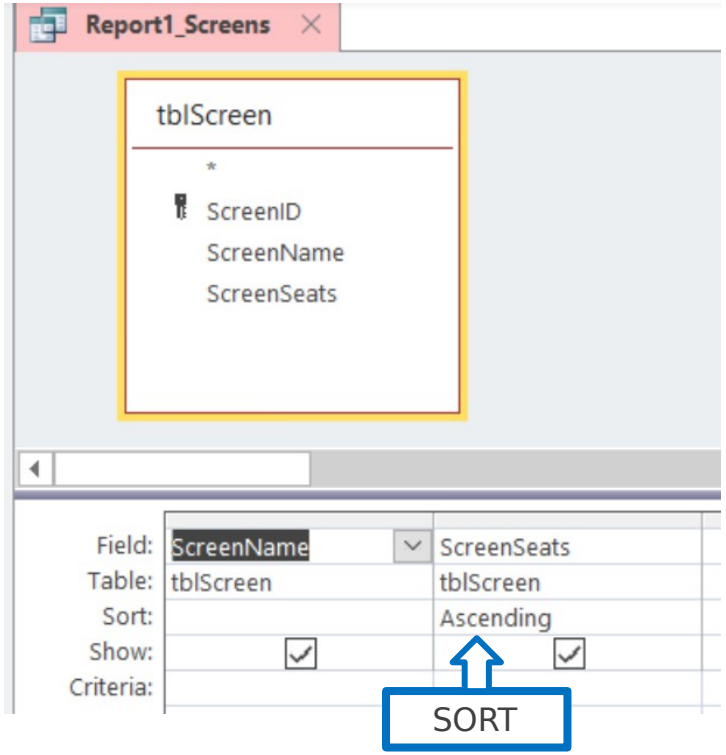
Create a report that shows the list of screens and their sizes.

QUERY DATASHEET VIEW



QUERY DESIGN VIEW



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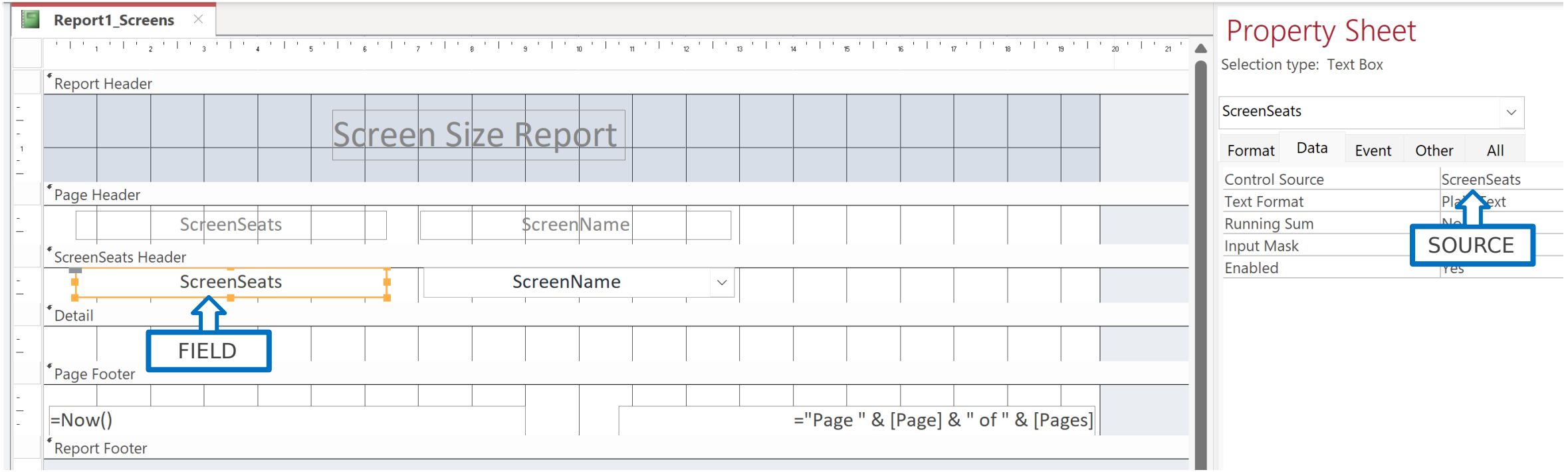
Report Design View



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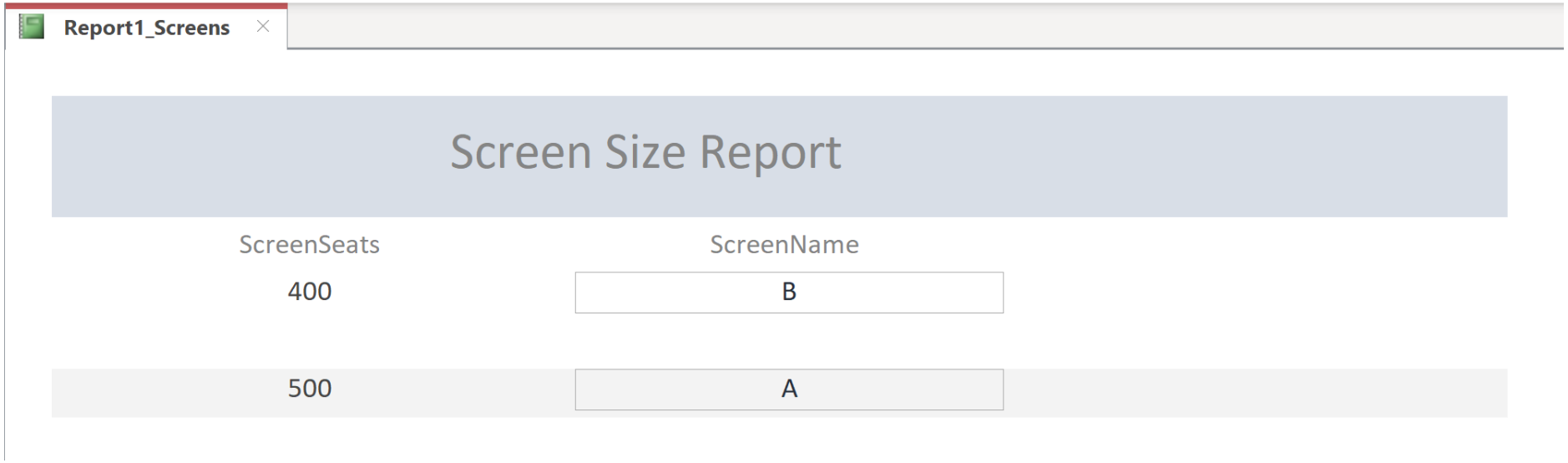
The Actual Report



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Glossary of Terms

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Glossary – Relational Database 1

Key Term	Definition
Attribute	Another name for a Column (or Field) in a Table in a Database.

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Glossary – Relational Database 2

Key Term	Definition
Entity Relationship	How data inside one Table is linked to data inside another Table in the same database. Relationships can be one:one, one:many and many:many.

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Glossary – Relational Database 3

Key Term	Definition
Candidate Key	When you have identified some columns that MIGHT be a good Primary Key.

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Glossary – Relational Database 4

Key Term	Definition

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Glossary - Normalisation

Key Term	Definition
Cascading Update	When any Updates made in one Table are reflected in other Tables that are Joined by a Foreign Key.

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Glossary – SQL

Key Term	Definition
Query	The process of asking a Database a question to get a specific answer.

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